

CLAIMS

1. A drainage assembly comprising a frame for defining at least part of the surface boundary of a surface drainage aperture; and a grating having
5 formed therein a plurality of apertures, the grating being hingedly securable to the frame and being moveable, when so secured, between an operative position in which the grating is contiguous with the frame; and an open position in which the grating lies hinged away from the frame, the frame and the grating including mutually engageable hinge parts comprising a first
10 pair of forks protruding from the grating; and a pair of journal members secured to the frame, one of the said first pair of forks and the pair of journal members each having protruding therefrom a respective protuberance and the other of the said first pair of forks and the pair of journal members each having formed therein a respective journal recess in
15 which a said protuberance is rotatably receivable when the frame and the grating are hingedly secured together, at least one of the said forks and/or at least one of the journal members being moveable against a resilient biasing to permit fabrication and dismantling of the drainage assembly and the locations of the respective protuberances and journal recesses being such as
20 to maintain the said protuberances rotatably in associated said journal recesses when the grating and the frame are so secured together.
2. A drainage assembly according to Claim 1 wherein both of the first pair of forks protruding from the grating are resiliently deformable.
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3. A drainage assembly according to Claim 1 or Claim 2 wherein the journal members include a second pair of forks protruding from the frame.
4. A drainage assembly according to Claim 3 wherein the forks
30 protruding from the frame are resiliently deformable.

5. A drainage assembly according to any preceding claim wherein the grating, including the first pair of forks, is formed from spheroidal graphite iron having an elongation threshold of between 3% and 7%.
- 5 6. A drainage assembly according to any preceding claim wherein the resilience of the or each said resiliently deformable fork permits deflection of parts of the assembly one relative to another to permit insertion of the protuberances into the recesses, during construction of the assembly.
- 10 7. A drainage assembly according to Claim 6 wherein the recesses are formed in the respective journal members; and at least one of the journal members includes a groove interconnecting a free edge of the journal member and its associated recess, the groove being so dimensioned and located as to permit sliding therein of an associated said protuberance,
15 following the said deflection, until the protuberance is received in the said associated recess.
8. A drainage assembly according to Claim 7 wherein the cross-sectional shape of the said associated protuberance includes major and
20 minor axes whereby the protuberance is slideable in the groove only when the grating is inclined at a predetermined angle relative to the frame.
9. A drainage assembly according to Claim 8 wherein when the grating adopts a predetermined angle relative to the frame, following receipt of the
25 said protuberance in its associated recess, the recess obscures from external view the existence of the minor axis of the cross-sectional shape of the protuberance.
10. A drainage assembly according to Claim 8 or Claim 9 wherein the
30 predetermined angle is between 0° and 90°.

11. A drainage assembly according to any preceding claim including a releasable lock arrangement for securing the grating in its operative position, the lock arrangement comprising a first lock member protruding from the frame and a second lock member protruding from part of the grating, the first and second lock members being:

(i) moveable transversely relative to one another against a resilient biasing; and

(ii) positioned such that on hinging of the grating to its operative position the second lock member passes downwardly past the first lock member following or during transverse relative movement between the lock members;

the lock members including, when the lock is operative to secure the grating in its operative position, a first pair of mutually juxtaposed surfaces that react against the resilient biasing; and a second pair of mutually juxtaposed surfaces that oppose a second resilient biasing tending to hinge the grating towards its open position.

12. A drainage assembly according to Claim 1 wherein when the lock arrangement is in use to secure the grating in its operative position the first lock member obscures at least one of the pairs of juxtaposed surfaces, when the drainage assembly is viewed from above.

13. A drainage assembly according to any preceding claim wherein the frame is rectangular and the axis of hinging of the grating is parallel to the shorter sides of the rectangle defined by the frame.

14. A drainage assembly according to any of Claims 1 to 12 wherein the frame is rectangular and the axis of hinging of the gratings is parallel to the longer sides of the rectangle defined by the frame.

15. A drainage assembly according to any preceding claim wherein the

frame is rectangular and is formed from an integral, generally U-shaped member having a plate secured thereto interconnecting the free ends of the limb of the "U".

5 16. A drainage assembly according to any preceding claim, wherein the frame includes an anchor for securing the assembly relative to a surface drainage aperture.

10 17. A drainage assembly according to Claim 16 wherein the anchor includes one or more protrusions or recesses formed on the frame for keying the frame in a bedding medium.

18. A drainage assembly according to Claim 17 wherein the protrusions or recesses additionally stiffen the frame against bending.

15 19. A drainage according to Claim 17 or Claim 18 wherein the frame includes protruding therefrom a flange; and wherein the protrusions or recesses are formed in or on a surface of the flange.

20 20. A drainage assembly according to any preceding claim wherein the frame includes protruding therefrom a flange, the extent of protrusion of the flange varying from place to place about the periphery of the frame.

25 21. A drainage assembly according to any preceding claim wherein the frame defines a continuous boundary.

22. A drainage assembly according to any preceding claim wherein projections are provided on the upper surface of the grating to slow the flow of fluids over the assembly.

30 23. A drainage assembly according to Claim 22 wherein the projections

are raised shapes and/or lettering on the grating surface.

24. A drainage assembly generally as herein described, with reference to and/or as shown in the accompanying drawings.